

BEAM POWER TUBE

9-PIN MINIATURE TYPE

For use in mobile communications equipment operating from 6-cell storage-battery systems

GENERAL DATA
Electrical:
Heater, for Unipotential Cathode: Voltage range 12 to 15 ac or dc volt Current (Approx.) at 13.5 volts 0.21 am Direct Interelectrode Capacitances: $^{\circ}$ Grid No.1 to plate 0.7 max. $\mu\mu$ Grid No.1 to all other electrodes except plate 8 $\mu\mu$ Plate to all other electrodes except grid No.1 8.5 $\mu\mu$
Mechanical:
Operating Position
Pin 1-Grid No.2 Pin 2-No Connection Pin 3-Grid No.1 Pin 4-Heater Pin 5-Heater Pin 5-Heater Pin 1-Grid No.2 Pin 6-Grid No.1 Pin 7-Cathode, Grid No.3 Pin 8-Grid No.2 Pin 9-Plate
AMPLIFIER - Class A
Maximum Ratings, Absolute Values: PLATE VOLTAGE
Typical Operation and Characteristics:
Heater Voltage
O without external shield.

11-58

TENTATIVE DATA 1

ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

1061



BEAM POWER TUBE

Peak AF Grid-No.1 Voltage10voltsZero-Signal Plate Current35.5maMaxSignal Plate Current38maZero-Signal Grid-No.2 Current9maMaxSignal Grid-No.2 Current7.5maPlate Resistance (Approx.)60000ohms	1
Transconductance	1
Maximum Circuit Values: Grid-No.1-Circuit Resistance: For fixed-bias operation 0.1 max. megohm For cathode-bias operation 0.5 max. megohm	
CHARACTERISTICS RANGE VALUES FOR EQUIPMENT DESIGN	
Note Min. Max.	
Heater Current. 1 0.19 0.23 amp Transconductance. 1,2 3100 5800 μmhos Plate Current 1,2 26 45 ma Grid-No.2 Current 1,2 - 6.5 ma Reverse Grid-No.1 Current 1,3 - -2 μā Power Output 1,4 2.4 - watts Heater-Cathode Leakage Current: Heater negative with respect to cathode 1,5 - 50 μā Heater positive with respect to cathode 1,5 - 50 μā Leakage Resistance: 1,5 - 50 μā	5 3 3 3 3
Between grid No.1 and all other electrodes tied together 1,6 50 - megohms	5
Between plate and all other electrodes tied together 1,7 50 - megohms	5
Note 1: With ac or dc heater volts = 13.5. Note 2: With dc plate volts = 200, grid-No.2 volts = 200, grid-No.1 volts = -10, and grid No.3 connected to cathode. Note 3: With grid-No.1 resistor (megohms) = 0.1. Note 4: With load resistor (ohms) = 5000, and rms signal volts = 7.1. Note 5: With 100 volts dc between heater and cathode. Note 6: With grid No.1 100 volts negative with respect to all other electrodes tied together. Note 7: Withplate 300 volts negative with respect to all other electrodes tied together.	
SPECIAL RATINGS & PERFORMANCE DATA	

|Heater-Cycling Life Performance:

This test is performed on a sample lot of tubes from each production run. A minimum of 2000 cycles of intermittent





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operation is applied under the following conditions: heater volts = 17 cycled one minute on and four minutes off, heater 135 volts negative with respect to cathode, and all other elements connected to ground. At the end of this test, tubes are checked for heater—cathode shorts and open circuits.

Low-Frequency Vibration Performance:

This test is performed on a sample lot of tubes from each production run under the following conditions: heater volts = 13.5, plate volts = 200, grid-No.2 volts = 200, grid-No.1 volts = -10, plate load resistor (ohms) = 2000, and vibrational acceleration of 2.5 g at 25 cps. In this test, the rms output voltage must not exceed 500 millivolts.

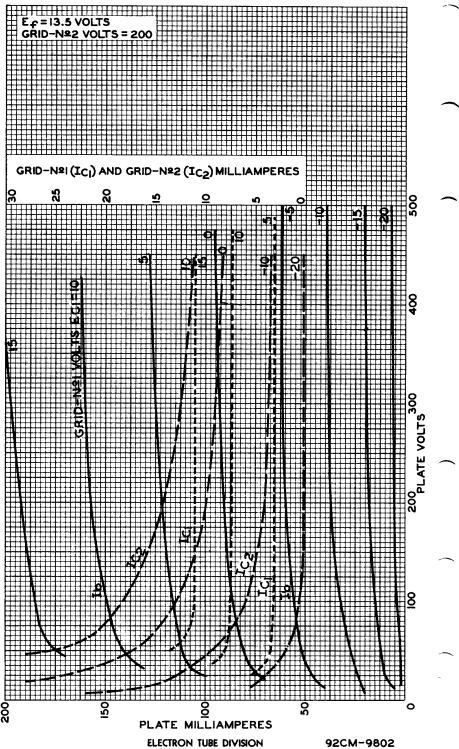
500-Hour Intermittent Life Performance:

This test is performed on a sample lot of tubes from each production run to insure high quality of the individual tube and to guard against epidemic failures. Life testing is conducted under the following conditions: heater volts = 15, and maximum-rated plate dissipation and grid-No.2 input.





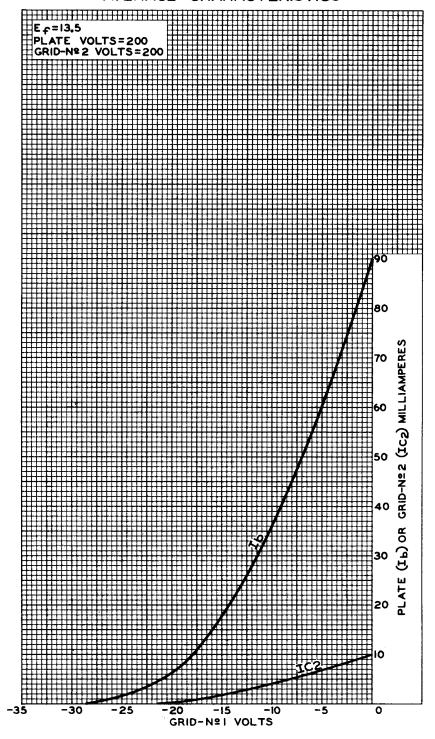
AVERAGE CHARACTERISTICS



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AVERAGE CHARACTERISTICS



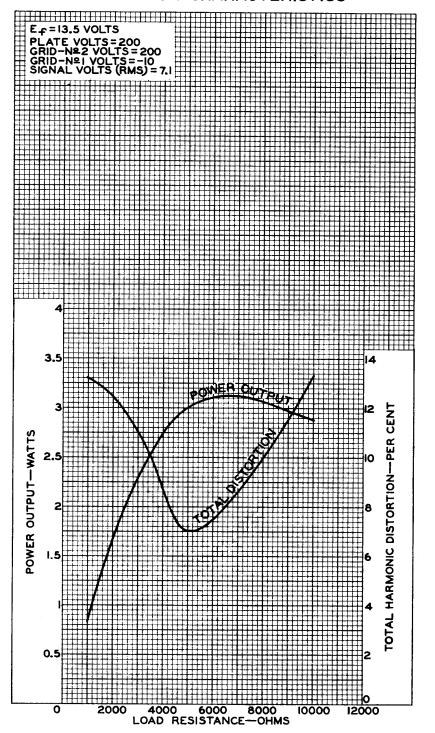
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92CM-9794





OPERATION CHARACTERISTICS



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92CM-9814



AVERAGE CHARACTERISTICS TRIODE CONNECTION

